

## 4.7 CUMULATIVE IMPACTS

### 4.7.1 METHODOLOGY

This section identifies the potential for cumulative impacts over the life of the program which could result from incremental impacts of proposed actions and alternatives identified previously, when added to other past, present, and reasonably foreseeable future actions regardless of what agency or person undertakes such actions.

The reference condition for cumulative effects is the No Action Alternative, which addresses the impacts of past, present, and ongoing programs. In particular, for alternatives that are proposed for DOE sites, the analysis focuses primarily on the potential for cumulative impacts at each candidate site where other programs or environmental management programs are reasonably anticipated.

The reasonably foreseeable future actions that may be implemented at some of the DOE sites under consideration in this PEIS include the following:

- *Storage and Disposition of Weapons-Usable Fissile Materials PEIS* (Final)
- *Final Environmental Impact Statement on a Proposed Nuclear Weapons Nonproliferation Policy Concerning Foreign Research Reactor Spent Nuclear Fuel* (ROD issued)
- *Disposition of Surplus Highly Enriched Uranium Final EIS* (ROD issued)
- *Department of Energy Programmatic Spent Nuclear Fuel Management and Idaho National Engineering Laboratory Restoration and Waste Management Programs Final Environmental Impact Statement* (ROD issued)
- *Stockpile Stewardship and Management PEIS* (Final)
- *Tritium Supply and Recycling PEIS* (ROD issued)
- *Waste Management PEIS* (Draft)

The following documents and associated actions were considered in assessing cumulative impacts, but were eliminated from further study because they do not contribute to cumulative impacts, they had impacts that were already included in the No Action Alternative, or they would be completed by the 2005 start date:

- *Defense Waste Processing Facility at the Savannah River Site EIS* (ROD issued)
- *Dual Axis Radiographic Hydrodynamic Test Facility EIS* (ROD issued)
- *Environmental Assessment for the Proposed Interim Storage of Enriched Uranium Above the Maximum Historical Storage Level at the Y-12 Plant, Oak Ridge, Tennessee* (FONSI issued)
- *Interim Management of Nuclear Materials at the Savannah River Site EIS* (Final)
- *Plutonium Finishing Plant EIS* (ROD issued)
- *Proposed Medical Isotope Production EIS* (ROD issued)
- *Environmental Impact Statement for the Nevada Test Site and Off-Site Locations in the State of Nevada* (Final)

- Savannah River Site Waste Management EIS (ROD issued)
- EIS for the Continued Operation of the Pantex Plant and Associated Storage of Nuclear Weapon Components (Final)
- Stabilization of Plutonium Solutions Stored in the F-Canyon Facility at the Savannah River Site EIS (ROD issued)

No other Federal, State, local, or private reasonably foreseeable actions were found that would contribute to cumulative impacts. When possible, planned projects before the 2005 No Action baseline have been incorporated into the No Action Alternative. The No Action Alternative takes into account existing site operations and includes the impacts resulting from planned changes to operations until the year 2005. Projects planned for beyond the 2005 No Action baseline are in such a preliminary stage as to make analysis speculative. Future tiered-NEPA documents would further analyze the impacts from other Federal, State, local, and private actions.

For the Storage Alternatives, the seven DOE programs and the eight DOE sites potentially affected are identified in Table 4.7.1-1. The cumulative impacts for long-term storage are discussed in Section 4.7.2. For the Disposition Alternatives, a generic analysis that is applicable to all DOE sites was developed. Since there are multiple combinations of alternatives that could be selected for the disposition program, a representative scenario was selected for the cumulative impacts analysis. The cumulative impacts for the disposition program are discussed in Section 4.7.3.

**Table 4.7.1-1. Reasonably Foreseeable Future Programs at Department of Energy Sites**

Program	NEPA Document Status	Hanford	NTS	INEL	Pantex	ORR	SRS	RFETS	LANL
Storage and Disposition	Final PEIS	X	X	X	X	X	X	X	X
Foreign Research Reactor Spent Nuclear Fuel	ROD issued			X			X		
HEU Disposition [Text deleted.]	ROD issued					X	X		
Spent Nuclear Fuel	ROD issued	X		X			X		
Stockpile Stewardship and Management	Final PEIS		X		X	X	X		X
Tritium Supply/Recycling	ROD issued						X		
Waste Management	Draft PEIS	X	X	X	X	X	X	X	X